

Title (en)
VARIABLE-CAPACITY CONTROL STRUCTURE, COMPRESSOR AND VARIABLE-CAPACITY CONTROL METHOD THEREFOR

Title (de)
STEUERUNGSSTRUKTUR MIT VARIABLER KAPAZITÄT, VERDICHTER UND STEUERVERFAHREN MIT VARIABLER KAPAZITÄT DAFÜR

Title (fr)
STRUCTURE DE COMMANDE DE CAPACITÉ VARIABLE, COMPRESSEUR ET PROCÉDÉ DE COMMANDE DE CAPACITÉ VARIABLE POUR CEUX-CI

Publication
EP 3663586 A4 20201014 (EN)

Application
EP 18875486 A 20180604

Priority
• CN 201711093414 A 20171108
• CN 2018089784 W 20180604

Abstract (en)
[origin: EP3663586A1] Disclosed are a variable-capacity control structure, a compressor and a variable-capacity control method thereof. The variable-capacity control structure includes: a variable-capacity assembly and a sliding vane restraint unit (8); the variable-capacity assembly is provided outside a housing (1) of a compressor to which the variable-capacity control structure is attached, and is configured to act in a setting order; the sliding vane restraint unit (8) is provided inside a pump body of the compressor, and is configured to cause a variable-capacity cylinder assembly in the compressor to be in a working state or an idling state under controlling the variable-capacity assembly to act in the setting order. By the solution of the present disclosure, advantages that vibration is reduced, compressor is not easy to shut down and pipeline is not easy to break are implemented.

IPC 8 full level
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F04C 18/3562 (2013.01 - CN US); **F04C 28/06** (2013.01 - EP); **F04C 28/18** (2013.01 - CN US); **F04C 29/00** (2013.01 - CN); **F04C 29/124** (2013.01 - US); **F04C 18/3562** (2013.01 - EP); **F04C 2240/811** (2013.01 - CN EP US)

Citation (search report)
• [X1] CN 202579193 U 20121205 - ZHUHAI GREE REFRIGERATION TECHNOLOGY CT ENERGY SAVING & ENVIRONMENTAL PROT CO LTD
• [X1] WO 2017125079 A1 20170727 - GREEN REFRIGERATION EQUIPMENT ENG RES CENTER OF ZHUHAI GREE CO LTD [CN]
• See also references of WO 2019091104A1

Designated contracting state (EPC)
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EP 3663586 A1 20200610; **EP 3663586 A4 20201014**; CN 107917078 A 20180417; CN 107917078 B 20240329; US 11519410 B2 20221206; US 2020232464 A1 20200723; WO 2019091104 A1 20190516

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EP 18875486 A 20180604; CN 201711093414 A 20171108; CN 2018089784 W 20180604; US 201816651694 A 20180604